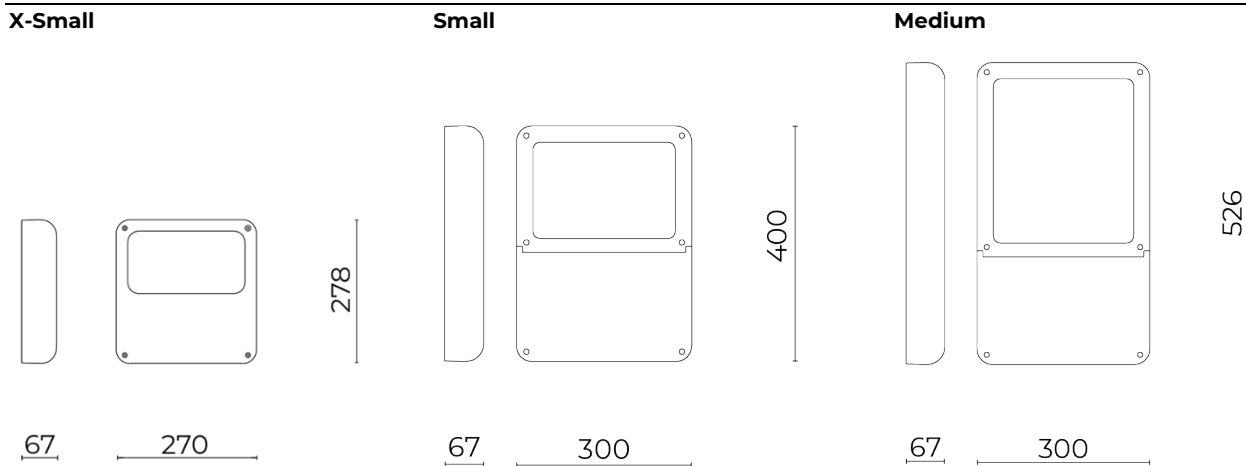


Levante 2.0

Options: x-small, small, medium
Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
2700K / 3000K / 4000K / RGBW (projection optics)
Type of optics: cycle path LT-C1
asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
asymmetrical LT-63, LT-64
pedestrian crossing AP-S2, AP-D2
symmetrical street SO-02
rotosymmetrical RS-02
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W



General features

Description: LED fitting for lighting façades, paths and urban spaces

Insulation class: class II

Nominal voltage: 220-240 V / 50-60 Hz

Protection level: IP66

Protection against impact: IK09

Power factor: > 0.95

Ambient temperature Ta: -30° C +50° C

Weight: 3.6 kg (x-small); 6 kg (small); 9 kg (medium)

Maximum exposed surface: (x-small) 0.073 m², (small) 0.119 m², (medium) 0.155 m²

Exposed lateral surface: (x-small) 0.017 m², (small) 0.026 m², (medium) 0.034 m²

Common mode surge protection: 10kV

Differential mode surge protection: 10kV

Surge protection device: integrated 10 kV-10 kA

Driver: electronic and programmable via NFC, included

Lifetime driver: F10 >100.000h @Ta25°C

Marks and Certifications: ENEC / CE

Production site: Made in Italy

Materials

Body, chassis and cover: die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%)

Screen: flat tempered glass 4 mm. When opening the lighting fixture, the optical compartment is always protected by the glass closure and is inaccessible.

Optical unit: high-transparency PMMA lenses

Optical screen: technopolymer

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Line sheet
Rev 31.07.24

Levante 2.0

Options: x-small, small, medium
Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
2700K / 3000K / 4000K / RGBW (projection optics)
Type of optics: cycle path LT-C1
asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
asymmetrical LT-63, LT-64
pedestrian crossing AP-S2, AP-D2
symmetrical street SO-02
rotosymmetrical RS-02
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

06LN _____
Colour: Sablè 100 Noir

Seal: anti-age silicone

External screws: stainless steel AISI 316

Internal screws: chrome-plated steel

Cables: PVC

Finish: phospho-chromatation treated and polyester powder-coated in 16 phases to increase weather resistance

Colour

Sablè 100 Noir

Installation and maintenance

Installation: wall / ceiling / ground / pole side / string suspension

Poles diameter: Ø 60 - 76 - 102 mm

Orientability: with joint, tilt -90° +90° and rotation ±15°; infinitely adjustable aiming and locking system

Fixing on pole side: (Poles version) fixed collar, single or double, for poles Ø 60 - 76 - 102 mm; (Brackets and poles version) arm for poles Ø 60-76-102 mm with adjustable joint made of die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), painted with polyester powder.

Fixing on wall: directly by means of die-cast flange or with adjustable joint (-90° + 90°) with possibility of ±15° rotation, made of die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), polyester powder coating.

Fixing on string suspension: for road tensioning (rope Ø 6 ÷ 12 mm), made of die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), powder-coated polyester type Sablé 100 Noir and bracket in stainless steel INOX 304.

Ø power cable: 10 ÷ 14 mm

Cable gland: PG16

Electrical connection: terminal block

Power cable anchorage: embedded in cable gland

Screen opening: yes

Power supply compartment: independent from the optical group

Quick and easy replacement of the optical unit and the power supply unit. In order to allow easy maintenance without interfering with the LED optical system, the electrical compartment is separated from the optical compartment, and to meet the demand for maintenance work on the power supply components, the electrical compartment is easily accessible from the underside of the housing without the use of tools. By turning the finned screws, the wiring compartment can be tilted to a wide angle, leaving free access to both the power cable connection area and the electronic components.

Optical unit substitutability: yes

Management system: ZHAGA

Optical system

It is equipped with 4000K, 3000K, 2700K and 2200K white emitter and RGBW (projection optics) positioned by means of a "pick and place" system on the electrical circuit (MCPCB) granting the thermal management. The same circuit is provided with an optical system, which is composed by high transparency poly-methyl-methacrylate lenses, which have been developed to realize the same beam opening and light up the same area at ground as all the others. By using this solution, it is possible to ensure that,

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Levante 2.0

Options: x-small, small, medium
Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
2700K / 3000K / 4000K / RGBW (projection optics)
Type of optics: cycle path LT-C1
asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
asymmetrical LT-63, LT-64
pedestrian crossing AP-S2, AP-D2
symmetrical street SO-02
rotosymmetrical RS-02
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

when a single LED is malfunctioning, there is no an area with lower lighting than the others but, at least, a percentage reduction of the lighting is obtained in the entire area of competence.

Colour rendering index (CRI): ≥ 70 (street asymmetrical and asymmetrical optics); ≥ 80 (projection optics)

Chromatic consistency (SDCM): ≤ 3

Optical unit lifetime: >100.000 h @ Ta 25°C L90B10

Photobiological safety class: EXEMPT GROUP

ULOR: 0%

DLOR: 100%

Luminous intensity category: G*3 cycle path LT-C1 and asymmetrical street ST-02, ME-05, ME-06, LA-03; G*4 asymmetrical street PB-01, asymmetrical LT-64 and symmetrical street SO-02; G*6 asymmetrical LT-63, pedestrian crossing AP-S2, AP-D2 and rotosymmetrical RS-02; G*6 projection optics U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Normative framework

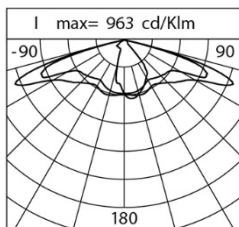
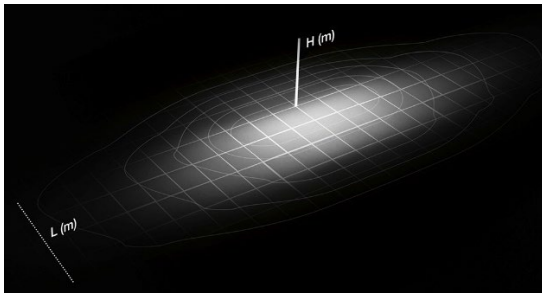
(street asymmetrical and asymmetrical optics) EN60598-1, EN60598-2-3, EN61547; EN62471, EN55015, EN61000-3-2, EN61000-3-3

(projection optics) EN60598-1 / EN60598-2-5 / EN62471 / EN61547

Cycle path optics and asymmetrical street optics

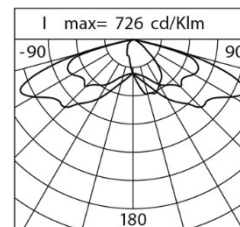
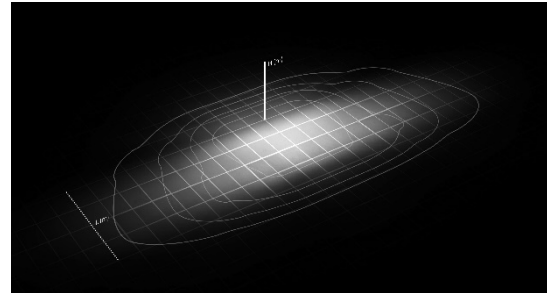
LT-C1 Cycle path

L/H = 0,5 (L = Street width, H = Pole height)



ST-02 Narrow street

L/H = 0,75 (L = Street width, H = Pole height)



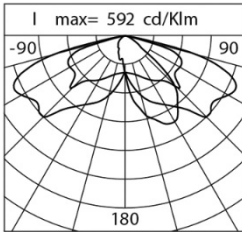
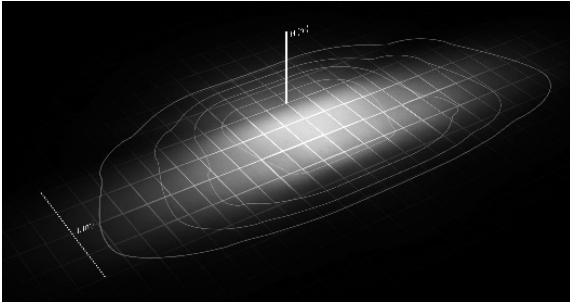
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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

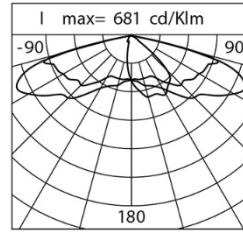
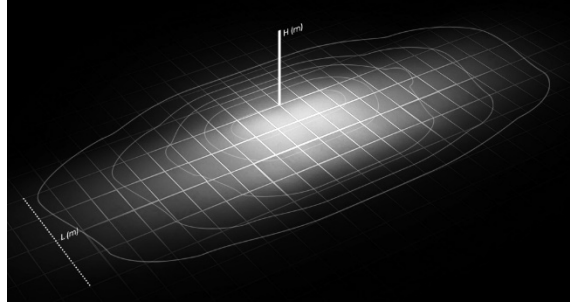
ME-05 Medium street

L/H = 1 (L = Street width, H = Pole height)



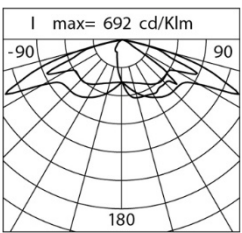
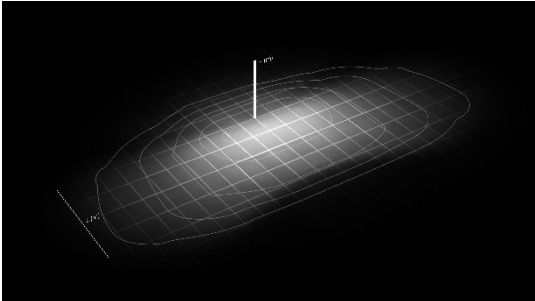
ME-06 Medium street with sidewalk

L/H = 1 (L = Street width, H = Pole height)



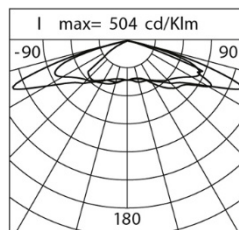
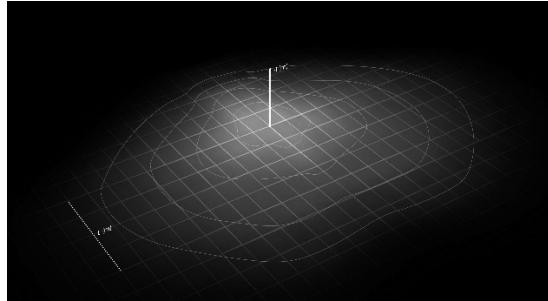
LA-03 Wide street

L/H = 1,25 (L = Street width, H = Pole height)



PB-01 Low pole

L/H = 2 (L = Street width, H = Pole height)



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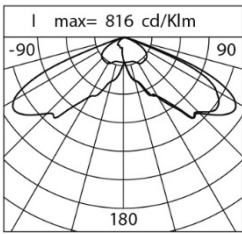
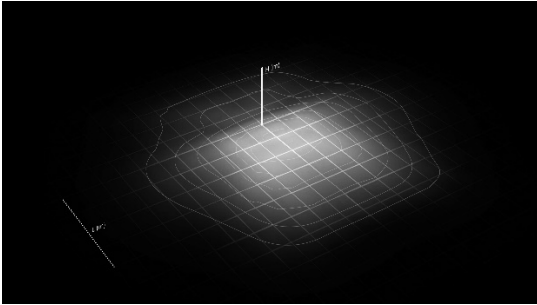
Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 roto-symmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Asymmetrical optics

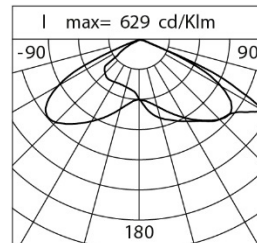
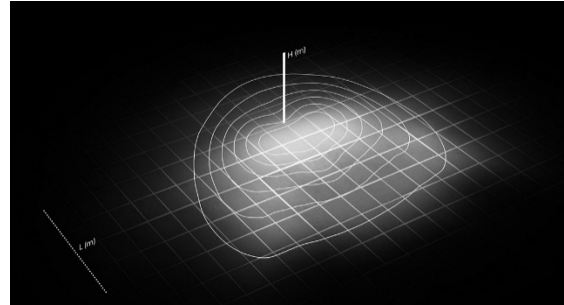
LT-63 Asymmetric beam

L/H = 2 (L = Street width, H = Pole height)



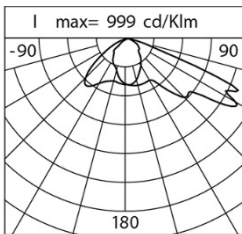
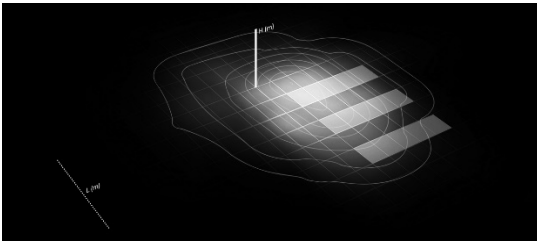
LT-64 Asymmetric beam with backlight

L/H = 2 (L = Street width, H = Pole height)

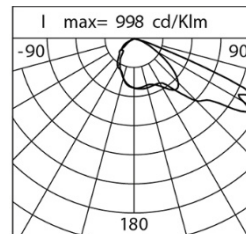
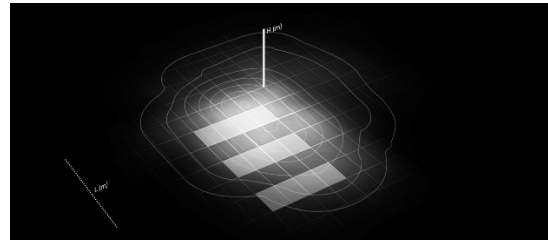


Pedestrian crossing optics

AP-S2 Pedestrian crossing



AP-D2 Pedestrian crossing



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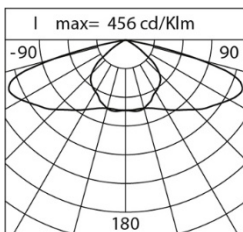
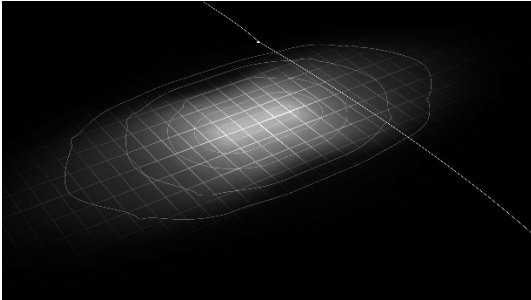
Levante 2.0

Options: x-small, small, medium
Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
2700K / 3000K / 4000K / RGBW (projection optics)
Type of optics: cycle path LT-C1
asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
asymmetrical LT-63, LT-64
pedestrian crossing AP-S2, AP-D2
symmetrical street SO-02
rotosymmetrical RS-02
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

06LN _____
Colour: Sablè 100 Noir

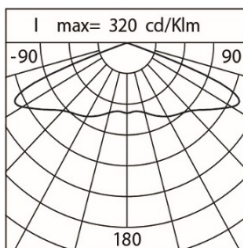
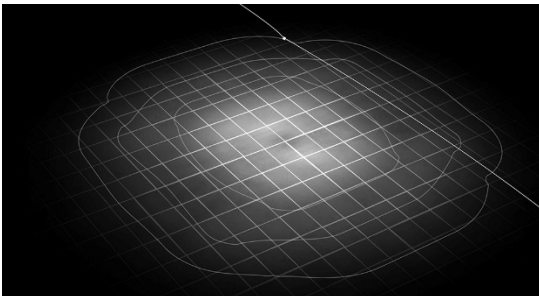
Symmetrical street optics

SO-02 Street centered



Rotosymmetrical optics

RS-02 Rotosymmetric Beam



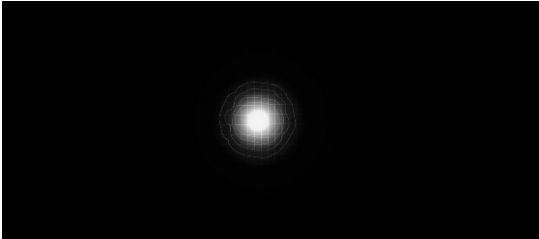
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Levante 2.0

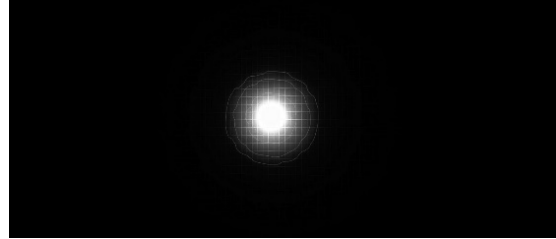
Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Projection optics

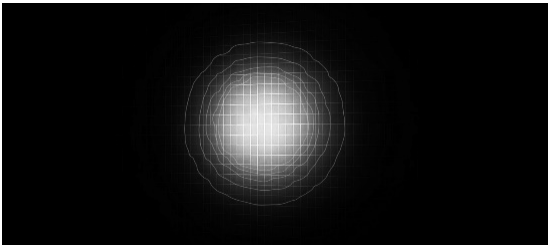
UC-6°



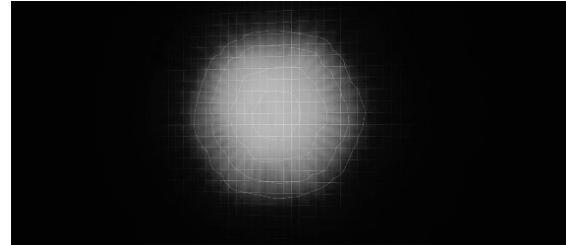
C 11°



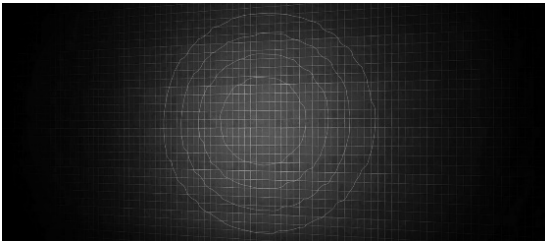
M 25°



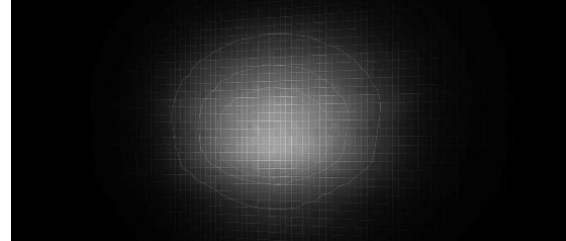
D 40°



U-D 90°



W-W°



Performance data

Street asymmetrical, asymmetrical and rotosymmetrical optics

LT-C1 (only for X-SMALL and SMALL) ST-02 / ME-05 / ME-06 / LA-03 PB-01 LT-63, LT-64 AP-S2 / AP-D2 (only for MEDIUM) SO-02 (only for SMALL) RS-02 (only for SMALL)												
Options	Source	K	ϕ mod [lm]	P mod [W]	η mod [lm/W]	ϕ app [lm]	P app [W]	η app [lm/W]	IPEA* street	IPEA* green areas/pedestrian-cycle paths	IPEA* open areas	IPEA* city centres
X-Small	LED R1	4000	2040	9	226	1755	12	146	D5	A9+	A9+	A8+
X-Small	LED R1	4000	2330	10,5	221	2000	13	153	D5	A10+	A10+	A9+

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

X-Small	LED R1	4000	2885	13	221	2480	16	155	D5	A10+	A11+	A9+
X-Small	LED R1	4000	3425	16	214	2945	19	155	D5	A10+	A11+	A9+
X-Small	LED R1	4000	3960	19	208	3405	22	154	D5	A10+	A11+	A9+
X-Small	LED R1	4000	4480	21,5	208	3850	25	154	D4	A10+	A11+	A9+
X-Small	LED R1	4000	4975	24,5	203	4275	28	152	D4	A9+	A10+	A9+
X-Small	LED R1	4000	5465	27,5	198	4700	31	151	D4	A9+	A10+	A9+
X-Small	LED R1	4000	5935	30,5	194	5105	34	150	D4	A9+	A10+	A9+
X-Small	LED R1	4000	6440	33,5	192	5540	37	149	D4	A9+	A10+	A8+
Small	LED R1	4000	2040	9	226	1755	12	146	D5	A9+	A9+	A8+
Small	LED R1	4000	2330	10,5	221	2000	13	153	D5	A10+	A10+	A9+
Small	LED R1	4000	2885	13	221	2480	16	155	D5	A10+	A11+	A9+
Small	LED R1	4000	3425	16	214	2945	19	155	D5	A10+	A11+	A9+
Small	LED R1	4000	3960	19	208	3405	22	154	D5	A10+	A11+	A9+
Small	LED R1	4000	4480	21,5	208	3850	25	154	D4	A10+	A11+	A9+
Small	LED R1	4000	4975	24,5	203	4275	28	152	D4	A9+	A10+	A9+
Small	LED R1	4000	5465	27,5	198	4700	31	151	D4	A9+	A10+	A9+
Small	LED R1	4000	5935	30,5	194	5105	34	150	D4	A9+	A10+	A9+
Small	LED R1	4000	6440	33,5	192	5540	37	149	D4	A9+	A10+	A8+
Small	LED R2	4000	6805	32	212	5855	36	162	D4	A11+	A12+	A10+
Small	LED R2	4000	7855	37,5	209	6755	42	160	D4	A11+	A11+	A10+
Small	LED R2	4000	8880	43	206	7635	47	162	D3	A11+	A12+	A10+
Small	LED R2	4000	9840	49	200	8460	53	159	D3	A10+	A11+	A10+
Small	LED R2	4000	10785	55	196	9275	60	154	D3	A10+	A11+	A9+
Small	LED R2	4000	11720	61	192	10080	65	155	D3	A10+	A11+	A9+
Small	LED R2	4000	12620	67	188	10855	72	150	D3	A9+	A10+	A7+
Small	LED R2	4000	13490	73	184	11670	78	149	D3	A8+	A10+	A7+
Medium	LED R3	4000	13255	65	203	11400	71	160	D3	A10+	A11+	A9+
Medium	LED R3	4000	14660	73,5	199	12610	80	157	D3	A10+	A11+	A8+
Medium	LED R3	4000	16045	82	195	13800	89	155	D3	A7+	A11+	A7+
Medium	LED R3	4000	17435	91	191	14995	98	153	D3	A7+	A10+	A7+
Medium	LED R3	4000	18775	100	187	16150	108	149	D3	A7+	A10+	A6+
Medium	LED R4	4000	19580	98	199	16840	105	160	D3	A8+	A11+	A7+
Medium	LED R4	4000	21425	109,5	195	18425	119	154	D2	A6+	A10+	A6+
Medium	LED R4	4000	23245	121,5	191	19990	131	152	D2	A5+	A10+	A6+
Medium	LED R4	4000	25075	133,5	187	21565	144	149	D2	A5+	A9+	A6+
Medium	LED R4	4000	26755	145,5	183	23180	155	149	D2	A5+	A9+	A5+

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

LT-C1 (only for X-SMALL and SMALL) ST-02 / ME-05 / ME-06 / LA-03 PB-01 LT-63, LT-64 AP-S2 / AP-D2 (only for MEDIUM) SO-02 (only for SMALL) RS-02 (only for SMALL)												
Options	Source	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]	IPEA* street	IPEA* green areas/pedestrian-cycle paths	IPEA* open areas	IPEA* city centres
X-Small	LED R1	3000	1940	9	215	1670	12	139	D6	A8+	A8+	A7+
X-Small	LED R1	3000	2210	10,5	210	1900	13	146	D5	A9+	A9+	A8+
X-Small	LED R1	3000	2740	13	210	2355	16	147	D5	A9+	A10+	A8+
X-Small	LED R1	3000	3255	16	203	2800	19	147	D5	A9+	A10+	A8+
X-Small	LED R1	3000	3760	19	197	3235	22	147	D5	A9+	A10+	A8+
X-Small	LED R1	3000	4255	21,5	197	3660	25	146	D4	A9+	A9+	A8+
X-Small	LED R1	3000	4725	24,5	192	4065	28	145	D4	A8+	A9+	A8+
X-Small	LED R1	3000	5190	27,5	188	4465	31	144	D4	A8+	A9+	A8+
X-Small	LED R1	3000	5640	30,5	184	4850	34	142	D4	A8+	A9+	A8+
X-Small	LED R1	3000	6095	33,5	181	5240	37	141	D4	A8+	A9+	A7+
Small	LED R1	3000	1940	9	215	1670	12	139	D6	A8+	A8+	A7+
Small	LED R1	3000	2210	10,5	210	1900	13	146	D5	A9+	A9+	A8+
Small	LED R1	3000	2740	13	210	2355	16	147	D5	A9+	A10+	A8+
Small	LED R1	3000	3255	16	203	2800	19	147	D5	A9+	A10+	A8+
Small	LED R1	3000	3760	19	197	3235	22	147	D5	A9+	A10+	A8+
Small	LED R1	3000	4255	21,5	197	3660	25	146	D4	A9+	A9+	A8+
Small	LED R1	3000	4725	24,5	192	4065	28	145	D4	A8+	A9+	A8+
Small	LED R1	3000	5190	27,5	188	4465	31	144	D4	A8+	A9+	A8+
Small	LED R1	3000	5640	30,5	184	4850	34	142	D4	A8+	A9+	A8+
Small	LED R1	3000	6095	33,5	181	5240	37	141	D4	A8+	A9+	A7+
Small	LED R2	3000	6465	32	202	5560	36	154	D4	A10+	A11+	A9+
Small	LED R2	3000	7465	37,5	199	6420	42	152	D4	A9+	A10+	A9+
Small	LED R2	3000	8435	43	196	7255	47	154	D3	A10+	A11+	A9+
Small	LED R2	3000	9345	49	190	8040	53	151	D3	A9+	A10+	A9+
Small	LED R2	3000	10245	55	186	8810	60	146	D3	A9+	A9+	A8+
Small	LED R2	3000	11135	61	182	9575	65	147	D3	A9+	A10+	A8+
Small	LED R2	3000	11990	67	178	10310	72	143	D3	A8+	A9+	A6+
Small	LED R2	3000	12815	73	175	11020	78	141	D3	A7+	A9+	A6+
Medium	LED R3	3000	12590	65	193	10830	71	152	D3	A9+	A10+	A8+
Medium	LED R3	3000	13925	73,5	189	11980	80	149	D3	A8+	A10+	A7+
Medium	LED R3	3000	15240	82	185	13110	89	147	D3	A6+	A10+	A6+

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 roto-symmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Medium	LED R3	3000	16560	91	181	14245	98	145	D3	A6+	A9+	A6+
Medium	LED R3	3000	17835	100	178	15340	108	142	D3	A6+	A9+	A5+
Medium	LED R4	3000	18600	98	189	15995	105	152	D3	A7+	A10+	A6+
Medium	LED R4	3000	20355	109,5	185	17505	119	147	D3	A5+	A9+	A5+
Medium	LED R4	3000	22080	121,5	181	18990	131	144	D2	A5+	A9+	A5+
Medium	LED R4	3000	23820	133,5	178	20485	144	142	D2	A4+	A8+	A5+
Medium	LED R4	3000	25415	145,5	174	21860	155	141	D2	A4+	A8+	A5+

**LT-C1 (only for X-SMALL and SMALL)
 ST-02 / ME-05 / ME-06 / LA-03
 PB-01
 LT-63, LT-64
 AP-S2 / AP-D2 (only for MEDIUM)
 SO-02 (only for SMALL)
 RS-02 (only for SMALL)**

Options	Source	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]	IPEA* street	IPEA* green areas/pedestrian-cycle paths	IPEA* open areas	IPEA* city centres
X-Small	LED R1	2700	1765	9	196	1510	12	125	D6	A6+	A6+	A5+
X-Small	LED R1	2700	2015	10,5	191	1720	13	132	D5	A7+	A7+	A6+
X-Small	LED R1	2700	2495	13	191	2135	16	133	D5	A7+	A8+	A6+
X-Small	LED R1	2700	2960	16	185	2535	19	133	D5	A7+	A8+	A6+
X-Small	LED R1	2700	3420	19	180	2930	22	133	D5	A7+	A8+	A6+
X-Small	LED R1	2700	3870	21,5	180	3315	25	132	D5	A7+	A7+	A6+
X-Small	LED R1	2700	4300	24,5	175	3680	28	131	D4	A7+	A7+	A6+
X-Small	LED R1	2700	4720	27,5	171	4040	31	130	D4	A6+	A7+	A6+
X-Small	LED R1	2700	5130	30,5	168	4390	34	129	D4	A6+	A7+	A6+
X-Small	LED R1	2700	5565	33,5	166	4745	37	128	D4	A6+	A7+	A6+
Small	LED R1	2700	1765	9	196	1510	12	125	D6	A6+	A6+	A5+
Small	LED R1	2700	2015	10,5	191	1720	13	132	D5	A7+	A7+	A6+
Small	LED R1	2700	2495	13	191	2135	16	133	D5	A7+	A8+	A6+
Small	LED R1	2700	2960	16	185	2535	19	133	D5	A7+	A8+	A6+
Small	LED R1	2700	3420	19	180	2930	22	133	D5	A7+	A8+	A6+
Small	LED R1	2700	3870	21,5	180	3315	25	132	D5	A7+	A7+	A6+
Small	LED R1	2700	4300	24,5	175	3680	28	131	D4	A7+	A7+	A6+
Small	LED R1	2700	4720	27,5	171	4040	31	130	D4	A6+	A7+	A6+
Small	LED R1	2700	5130	30,5	168	4390	34	129	D4	A6+	A7+	A6+
Small	LED R1	2700	5565	33,5	166	4745	37	128	D4	A6+	A7+	A6+
Small	LED R2	2700	5880	32	183	5035	36	139	D4	A8+	A8+	A7+
Small	LED R2	2700	6785	37,5	180	5810	42	138	D4	A7+	A8+	A7+
Small	LED R2	2700	7670	43	178	6570	47	139	D4	A8+	A8+	A7+
Small	LED R2	2700	8500	49	173	7275	53	137	D3	A7+	A8+	A7+

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Small	LED R2	2700	9315	55	169	7975	60	132	D3	A7+	A7+	A6+
Small	LED R2	2700	10125	61	165	8670	65	133	D3	A7+	A8+	A6+
Small	LED R2	2700	10900	67	162	9335	72	129	D3	A6+	A7+	A5+
Small	LED R2	2700	11715	73	160	9975	78	127	D3	A6+	A7+	A4+
Medium	LED R3	2700	11450	65	176	9805	71	138	D3	A7+	A8+	A6+
Medium	LED R3	2700	12665	73,5	172	10845	80	135	D3	A7+	A8+	A5+
Medium	LED R3	2700	13860	82	169	11865	89	133	D3	A5+	A8+	A4+
Medium	LED R3	2700	15060	91	165	12895	98	131	D3	A4+	A7+	A4+
Medium	LED R3	2700	16215	100	162	13885	108	128	D3	A4+	A7+	A4+
Medium	LED R4	2700	16910	98	172	14480	105	137	D3	A5+	A8+	A5+
Medium	LED R4	2700	18505	109,5	168	15850	119	133	D3	A3+	A7+	A4+
Medium	LED R4	2700	20075	121,5	165	17190	131	131	D3	A3+	A7+	A3+
Medium	LED R4	2700	21655	133,5	162	18545	144	128	D2	A3+	A6+	A3+
Medium	LED R4	2700	23275	145,5	159	19790	155	127	D2	A3+	A6+	A3+

**LT-C1 (only for X-SMALL and SMALL)
 ST-02 / ME-05 / ME-06 / LA-03
 PB-01
 LT-63, LT-64
 SO-02 (only for SMALL)
 RS-02 (only for SMALL)**

Options	Source	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]	IPEA* street	IPEA* green areas/pedestrian-cycle paths	IPEA* open areas	IPEA* city centres
X-Small	LED R1	2200	2230	13	171	1910	16	119	D6	A5+	A6+	A4+
X-Small	LED R1	2200	3060	19	161	2620	22	119	D6	A5+	A6+	A4+
X-Small	LED R1	2200	3845	24,5	156	3295	28	117	D5	A5+	A5+	A4+
X-Small	LED R1	2200	4975	33,5	148	4250	37	114	D5	A4+	A5+	A4+
Small	LED R1	2200	2230	13	171	1910	16	119	D6	A5+	A6+	A4+
Small	LED R1	2200	3060	19	161	2620	22	119	D6	A5+	A6+	A4+
Small	LED R1	2200	3845	24,5	156	3295	28	117	D5	A5+	A5+	A4+
Small	LED R1	2200	4975	33,5	148	4250	37	114	D5	A4+	A5+	A4+
Small	LED R2	2200	6070	37,5	161	5205	42	123	D5	A5+	A6+	A5+
Small	LED R2	2200	7605	49	155	6515	53	122	D4	A5+	A6+	A5+
Small	LED R2	2200	9055	61	148	7760	65	119	D4	A5+	A6+	A4+
Small	LED R2	2200	10480	73	143	8935	78	114	D4	A4+	A5+	A3+

Projection optics

C 11° / M 25° / D 40°

Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	4000	1700	10,9	155	1390	12	115

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

X-Small	LED L3	400	4000	2120	15,5	136	1735	16	108
X-Small	LED L3	500	4000	2590	17	152	2120	19	111
X-Small	LED L3	700	4000	3375	23,5	143	2765	26	106
X-Small	LED L3	900	4000	4130	30	137	3385	33	102
X-Small	LED L3	1000	4000	4535	33,5	135	3715	37	100
Small	LED L6	300	4000	3085	19	162	2655	22	120
Small	LED L6	400	4000	4030	26	155	3470	30	115
Small	LED L6	500	4000	4930	33	149	4240	37	114
Small	LED L6	700	4000	6430	47,5	135	5530	52	106
Small	LED L6	900	4000	7880	61,5	128	6775	67	101
Small	LED L6	1000	4000	8640	68	127	7430	74	100
Medium	LED L12	500	4000	9860	68	145	8480	74	114
Medium	LED L12	600	4000	11565	82,5	140	9945	89	111
Medium	LED L12	700	4000	12855	96,5	133	11055	104	106
Medium	LED L12	800	4000	14330	111,5	128	12625	119	106
Medium	LED L12	1000	4000	17275	139,5	123	14860	148	100

U-D 90° / W-W									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	4000	1700	10,9	155	1260	12	105
X-Small	LED L3	400	4000	2120	15,5	136	1570	16	98
X-Small	LED L3	500	4000	2590	17	152	1920	19	101
X-Small	LED L3	700	4000	3375	23,5	143	2500	26	96
X-Small	LED L3	900	4000	4130	30	137	3060	33	92
X-Small	LED L3	1000	4000	4535	33,5	135	3360	37	90
Small	LED L6	300	4000	3240	20	162	2400	22	109
Small	LED L6	400	4000	4235	27	156	3135	30	104
Small	LED L6	500	4000	5175	33,5	154	3830	37	103
Small	LED L6	700	4000	6745	47,5	142	4995	52	96
Small	LED L6	900	4000	8265	61	135	6120	67	91
Small	LED L6	1000	4000	9065	67,5	134	6710	74	90
Medium	LED L12	500	4000	10345	67,5	153	7660	74	103
Medium	LED L12	600	4000	12310	81	151	8980	89	100
Medium	LED L12	700	4000	13485	94,5	142	9980	104	95
Medium	LED L12	800	4000	15400	108,5	141	11400	119	95
Medium	LED L12	1000	4000	18125	134,5	134	13410	148	90

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

U-C 6°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	4000	1700	10,9	155	1225	12	102
X-Small	LED L3	400	4000	2120	15,5	136	1665	16	104
X-Small	LED L3	500	4000	2590	17	152	2040	19	107
X-Small	LED L3	700	4000	3375	23,5	143	2705	26	104
Small	LED L6	300	4000	2970	19	156	2555	22	116
Small	LED L6	400	4000	3870	26	149	3330	30	111
Small	LED L6	500	4000	4745	33	144	4080	37	110
Small	LED L6	700	4000	6295	47,5	133	5415	52	104
Medium	LED L12	300	4000	5945	40	149	5110	44	116
Medium	LED L12	400	4000	7740	54,5	142	6660	59	113
Medium	LED L12	500	4000	9490	68	140	8165	74	110
Medium	LED L12	700	4000	12590	96,5	130	10825	104	104

C 11° / M 25° / D 40°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	3000	1535	10,9	140	1255	12	104
X-Small	LED L3	400	3000	2010	15,5	129	1645	16	102
X-Small	LED L3	500	3000	2455	17	144	2010	19	105
X-Small	LED L3	700	3000	3200	23,5	136	2620	26	100
X-Small	LED L3	900	3000	3925	30	130	3415	33	103
X-Small	LED L3	1000	3000	4275	33,5	127	3505	37	94
Small	LED L6	300	3000	2925	19	153	2515	22	114
Small	LED L6	400	3000	3825	26	147	3290	30	109
Small	LED L6	500	3000	4675	33	141	4020	37	108
Small	LED L6	700	3000	6095	47,5	128	5240	52	100
Small	LED L6	900	3000	7475	61,5	121	6430	67	95
Small	LED L6	1000	3000	8145	68	119	7005	74	94
Medium	LED L12	500	3000	9355	68	137	8045	74	108
Medium	LED L12	600	3000	10965	82,5	132	9430	89	105
Medium	LED L12	700	3000	12185	96,5	126	10480	104	100
Medium	LED L12	800	3000	13615	111,5	122	11710	119	98
Medium	LED L12	1000	3000	16295	139,5	116	14010	148	94

U-D 90° / W-W									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	3000	1535	10,9	140	1140	12	95
X-Small	LED L3	400	3000	2010	15,5	129	1490	16	93

The features of the product listed above may be subjected to change without notice. They will have to be confirmed in case of order. In order to facilitate a constant updating of their products, Cariboni Group reserves the right to make changes without prior notice.

Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 rotosymmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

X-Small	LED L3	500	3000	2455	17	144	1820	19	95
X-Small	LED L3	700	3000	3200	23,5	136	2370	26	91
X-Small	LED L3	900	3000	3925	30	130	2905	33	88
X-Small	LED L3	1000	3000	4275	33,5	127	3165	37	85
Small	LED L6	300	3000	3070	20	153	2275	22	103
Small	LED L6	400	3000	4015	27	148	2975	30	99
Small	LED L6	500	3000	4905	33,5	146	3630	37	98
Small	LED L6	700	3000	6395	47,5	134	4753	52	91
Small	LED L6	900	3000	7845	61	128	5810	67	86
Small	LED L6	1000	3000	8545	67,5	126	6325	74	85
Medium	LED L12	500	3000	9815	67,5	145	7265	74	98
Medium	LED L12	600	3000	11500	81	141	8510	89	95
Medium	LED L12	700	3000	12785	94,5	135	9465	104	91
Medium	LED L12	800	3000	14285	108,5	131	10575	119	88
Medium	LED L12	1000	3000	17090	134,5	127	12650	148	85

U-C 6°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	3000	1535	10,9	140	1100	12	91
X-Small	LED L3	400	3000	2010	15,5	129	1450	16	90
X-Small	LED L3	500	3000	2455	17	144	1765	19	92
X-Small	LED L3	700	3000	3200	23,5	136	2345	26	90
Small	LED L6	300	3000	2555	19	134	2200	22	100
Small	LED L6	400	3000	3365	26	129	2895	30	96
Small	LED L6	500	3000	4100	33	124	3530	37	95
Small	LED L6	700	3000	5445	47,5	114	4685	52	90
Medium	LED L12	300	3000	5115	40	127	4400	45	97
Medium	LED L12	400	3000	6730	54,5	123	5785	59	98
Medium	LED L12	500	3000	8200	68	120	7055	74	95
Medium	LED L12	700	3000	10890	96,5	112	9365	104	90

C 11° / M 25° / D 40°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	2700	1475	10,9	135	1205	12	100
X-Small	LED L3	400	2700	1930	15,5	124	1580	16	98
X-Small	LED L3	500	2700	2355	17	138	1930	19	101
X-Small	LED L3	700	2700	3075	23,5	130	2515	26	96
X-Small	LED L3	900	2700	3770	30	125	3085	33	93
X-Small	LED L3	1000	2700	4105	33,5	122	3555	37	96

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 roto-symmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Small	LED L6	300	2700	2950	20	147	2415	22	109
Small	LED L6	400	2700	3855	27	142	3160	30	105
Small	LED L6	500	2700	4710	33,5	140	3860	37	104
Small	LED L6	700	2700	6145	47,5	129	5035	52	96
Small	LED L6	900	2700	7535	61	123	6175	67	92
Small	LED L6	1000	2700	8205	67,5	121	6725	74	90
Medium	LED L12	500	2700	9425	67,5	139	7725	74	104
Medium	LED L12	600	2700	11045	81	136	9055	89	101
Medium	LED L12	700	2700	12275	94,5	129	10065	104	96
Medium	LED L12	800	2700	13715	108,5	126	11245	119	94
Medium	LED L12	1000	2700	16405	134,5	121	13450	148	90

U-D 90° / W-W									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	2700	1475	10,9	135	1095	12	91
X-Small	LED L3	400	2700	1930	15,5	124	1430	16	89
X-Small	LED L3	500	2700	2355	17	138	1745	19	91
X-Small	LED L3	700	2700	3075	23,5	130	2280	26	87
X-Small	LED L3	900	2700	3770	30	125	2790	33	84
X-Small	LED L3	1000	2700	4105	33,5	122	3040	37	82
Small	LED L6	300	2700	2950	20	147	2185	22	99
Small	LED L6	400	2700	3855	27	142	2855	30	95
Small	LED L6	500	2700	4710	33,5	140	3490	37	94
Small	LED L6	700	2700	6145	47,5	129	4550	52	87
Small	LED L6	900	2700	7535	61	123	5580	67	83
Small	LED L6	1000	2700	8205	67,5	121	6075	74	82
Medium	LED L12	500	2700	9425	67,5	139	6975	74	94
Medium	LED L12	600	2700	11045	81	136	8175	89	91
Medium	LED L12	700	2700	12275	94,5	129	9085	104	87
Medium	LED L12	800	2700	13715	108,5	126	10150	119	85
Medium	LED L12	1000	2700	16405	134,5	121	12140	148	82

U-C 6°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
X-Small	LED L3	300	2700	1475	10,9	135	1055	12	87
X-Small	LED L3	400	2700	1930	15,5	124	1380	16	86
X-Small	LED L3	500	2700	2355	17	138	1690	19	88
X-Small	LED L3	700	2700	3075	23,5	130	2250	26	86
Small	LED L6	300	2700	2950	20	147	2115	22	96

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Levante 2.0

Options: x-small, small, medium
 Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 2700K / 3000K / 4000K / RGBW (projection optics)
 Type of optics: cycle path LT-C1
 asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
 asymmetrical LT-63, LT-64
 pedestrian crossing AP-S2, AP-D2
 symmetrical street SO-02
 roto-symmetrical RS-02
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Small	LED L6	400	2700	3855	27	142	2780	30	92
Small	LED L6	500	2700	4710	33,5	140	3390	37	91
Small	LED L6	700	2700	6145	47,5	129	4500	52	86
Medium	LED L12	300	2700	5155	41	125	4225	45	93
Medium	LED L12	400	2700	6775	53,5	126	5555	59	94
Medium	LED L12	500	2700	9425	67,5	139	6775	74	91
Medium	LED L12	700	2700	12275	94,5	129	8995	104	86

RGBW - C 11° / M 25° / D 40°									
Medium	LED L12	700	RGBW	4030	50	80	3300	54	61
Small	LED L6	700	RGBW	8060	100	80	6600	104	63

Data of the lighting source flux and efficiency refer to the LED module, without lenses. In case you need data of the LED module complete with lenses, please multiply the mentioned data by 0.9 factor.
 Values indicated in this technical sheet are to be considered nominal values with a tolerance of +/-7%.

Legend

- mA = Power supply
- K = Colour temperature
- φ mod [lm] = Flux source
- P mod [W] = Power source
- η mod [lm/W] = Efficiency of source
- φ app [lm] = Flux fitting
- P app [W] = Power fitting
- η app [lm/W] = Efficiency of fitting
- IPEA = Parameterised Index of Lighting Apparatus Efficiency

Flux regulation	Standard	On request
Self-learning virtual midnight (street asymmetrical and asymmetrical optics)		X
Zhaga - Book 18 (street asymmetrical and asymmetrical optics)		X
DALI Regulation (projection optics)	X	
Constant Light Output (CLO)		X
1-10V Regulation		X
Mains voltage variation		X
DALI Regulation (street asymmetrical and asymmetrical optics)		X
Wireless telemanagement		X
Motion / brightness detectors		X

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2700K / 3000K / 4000K / RGBW (projection optics)
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asymmetrical LT-63, LT-64
pedestrian crossing AP-S2, AP-D2
symmetrical street SO-02
rotosymmetrical RS-02
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

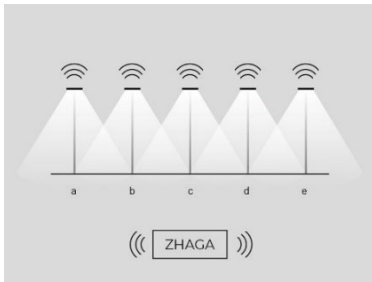
Flux regulation

Self-learning of the virtual midnight with possibility of custom programs (codes ending by _HM4)

Custom programmable versions are available at the customer's request. Using a virtual midnight algorithm, a precise reduction can be made in the luminaire's luminous flux percentage and its electrical power input. On request, the system can be programmed for operation with DALI protocol.

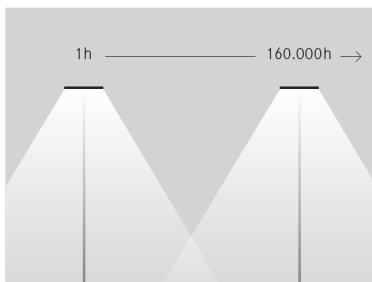
Zhaga - Book 18 (codes ending by _HL5)

The product is supplied with a 4-pin socket UP (Zhaga Book 18).



Constant Lumen Output CLO

The aim of CLO is to compensate the natural deterioration of the LED luminous flux. By pre-programming a gradual increase in current, the luminous flux is maintained over time and, in any case, never drops lower than the preset limit.



Group Management: flow adjustment in 1-10V and DALI

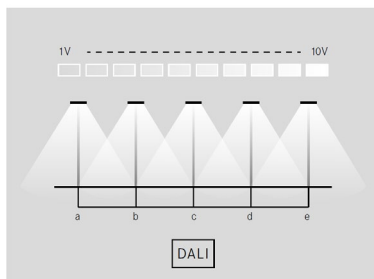
1-10V — This is an analogue type control system based on the distribution of a voltage signal between 1 and 10 Volt, where 1V corresponds to the minimum light intensity value and 10V corresponds to the maximum value.

DALI — This is a digital type control system where every device is assigned a unique address that allows the individual light points to be controlled and the control units to be created.

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Levante 2.0

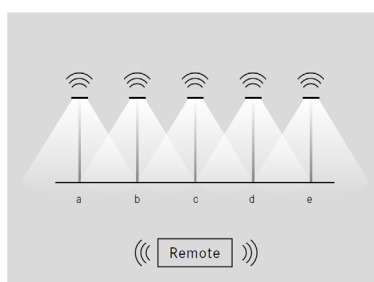
Options: x-small, small, medium
Colour temperature: 2200K / 2700K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
2700K / 3000K / 4000K / RGBW (projection optics)
Type of optics: cycle path LT-C1
asymmetrical street ST-02, ME-05, ME-06, LA-03, PB-01
asymmetrical LT-63, LT-64
pedestrian crossing AP-S2, AP-D2
symmetrical street SO-02
rotosymmetrical RS-02
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W



Remote Management

Wireless remote control systems allow the luminous flux to be dimmed, the system to be monitored and consumption statistics and faults to be displayed all remotely. In addition to reducing consumption and running costs, remote management systems provide an infrastructure that is useful for hosting other local systems or services that are compatible with the latest smart lighting projects

Wireless — The wireless remote management system can remote control luminaires simply and without limits thanks to the existing system. Wireless technology allows each individual luminaire to be monitored remotely and consumption profiles to be modified.



Sensors

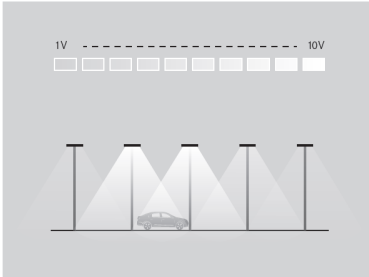
Movement and presence sensors — Using movement sensors allows the luminaire's luminous flux to be regulated and the correct safety levels maintained according to whether a person or a vehicle is passing. If no movement of people or vehicles is detected the luminous flux is reduced, thereby allowing consumption and costs to be reduced. The type of sensor and the method of installation should be defined according to the application context and the size and shape of the space in question. The system control, by communicating with the 1-10V DALI or Wireless systems, can be centralised. Sensors must be mounted outside the product.

Light sensor — The Cariboni products with DALI, 1-10V or Wireless adjustment are compatible with light sensors that adjust the light emission output based on the quantity of light already in the space. This solution avoids waste and guarantees a return on investment in a very short time.

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Levante 2.0

Options: x-small, small, medium
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asymmetrical LT-63, LT-64
pedestrian crossing AP-S2, AP-D2
symmetrical street SO-02
rotosymmetrical RS-02
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W



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